

Thomas C. Willeford  
Aluminum Company of America - Lafayette Indiana Operations  
P.O. Box 7500  
Lafayette, IN 47903-7500

Re: 157-14994-00001  
Administrative Amendment to  
Part 70 157-7101-00001

Dear Mr. Willeford:

Aluminum Company of America - Lafayette Indiana Operations was issued Part 70 operating permit T157-7101-00001 on March 18, 1999 for operation of a secondary aluminum production facility. An application to modify the source was received on October 29, 2001. Pursuant to the provisions of 326 IAC 2-7-11(a)(8), the permit is hereby administratively amended as follows:

One (1) natural gas fired Samsco Coolant Evaporator, identified as ICR-01, rated at 0.395 million British thermal units per hour (MMBtu/hr), exhausting to one (1) stack, identified as 80-10A.

The coolant evaporator is not a specifically regulated insignificant activity, thus it will not be added to Section A.3 of the permit, thus there is no need for the Title V permit to be revised.

All other conditions of the permit shall remain unchanged and in effect.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter please contact Nishat Hydari, at 973-575-2555 (ext. 3216) or 1-800-451-6027 press 0 and ask for extension 3-6878.

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

NH/EVP

cc: File - Tippecanoe County  
U.S. EPA, Region V  
Tippecanoe County Health Department  
Air Compliance Section Inspector - Jim Thorpe  
Compliance Data Section - Karen Nowak  
Administrative and Development - Janet Mobley  
Technical Support and Modeling - Michele Boner

**Appendix A: Emissions Calculations**  
**Natural Gas Combustion Only**  
**MM BTU/HR <100**

**Company Name:** Aluminum Company of America - Lafayette Indiana Operations  
**Address City IN Zip:** 3131 East Main Street, Lafayette, IN 47903  
**Title V Administrative Amendment:** 157-14994  
**Plt ID:** 157-00001  
**Reviewer:** NH/EVP

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

0.395

3.5

Facility includes one (1) 0.395 MMBtu/hr Samsco Coolant Evaporator, identified as ICR-01

Pollutant						
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	SO2 0.6	NOx 100.0 **see below	VOC 5.5	CO 84.0
Potential Emission in tons/yr	0.00	0.01	0.00	0.17	0.01	0.15

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).